ENT BOOK

Dimensions			Contents	Reference to last Measurement
th	Breadth 5	Depth 6	7	8
		Total Rs.	4.98,242-00	
		IT-	9965-00	
		VAT-	19930-00	
		Cess.	4982-00	
		CBF.	498-00	
		LR-	5979-00	
		FSD-	24912-00	
		Fine:	2300-00	
		Adj.	68566-00	
		Charges.	429676-00	

"First and final"

M. A. R. 57 (Rule 116)

Measurement Book

No. B 209316

BRNo: 99/31-5-17

Serial No. Estimate for improvements to Varadarajanagar Burial Ground Ward No-11 (Kuvempunagar), Vidyaranpura Sub Division.

Name of the Work :- From To

Name of Contractor of nature of Agency Work order no:- BBMP/AE/RTD/WO/135/2016-17 Dt:- 24/10/2016

Date of commencement of work

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Work Code :- 0/1-16-000026						
1	KSRB-1-1: Earthwork in surface excavation ordinary soil for levelling and lowering to ground manually (other than foundations of Buildings, Culverts, Rudd drains and trenches of Pipelines and Cable laying) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, Elevated surface levelled and neatly dressed complete as per specification. As per Premeasurement vide BMB no-20944 Page No-209392					1.29m³ @Rs.156.88 Rs 202-00	
2	KSRB 2-2-1: Earthwork excavation for foundation of Buildings, Culverts, Water Supply, Sanitary line and electrical Conduits either in Pits (or) in trenches 1.5m and above in						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Width, in ordinary soil not exceeding 1.5m in depth, including depositing the bottom and sides of pits and benches, stacking the excavated spoil clear from edges of excavation with lead upto 50m, after breaking clods complete as per specifications. As per pre measurement wide of MB no - 2094 & page no - 209392	}				416.25 m3	
(3)	KSRB 2.8: Providing and filling in foundation with granite/trap broken metal 100mm and down size with approved sand including cost of material and labour with all lead and lift watering, including cost of material and labour with all lead and lift complete as per specifications.	@	Rs 188.68			Rs 78538=00	
		1	9	1.00	0.3	=2.70m3	
(4)	KSRB 4-1.3: Providing and laying in position plain cement concrete 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded	@	Rs 2133.78			Rs 5761=00	

Serial No. .....

Name of Work ..... From.

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	Granite metal Coarse aggregate machine mixed Concrete laid in Compacted in foundation and pl using machinery complete as pe As per premeasurment wide of MB no - 2094 wide page no - 209392 and 209393	
(5)	KSRB 5-2.3: Providing and in foundation with cement not less than 20cms high, bond of materials, labour, curing co	

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
		depth, including dressing the bottom soil clear from Edges of ode complete as per specifications	
		416.25 m3	
Rs 188.68		Rs 78538=00	
tion with granite/trap broken metal ding hand packing, ramming, with all lead and lift			
1.00 x 0.3		=2.70 m3	
Rs 2133.78		Rs 576 1=00	
osition plain cement concrete 1:4 th 40mm and down size graded			

M. A. R. 57 (Rule 116)
Measurement Book

No. B 209317

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Granite metal Coarse aggregate (4) 0.85 cum and fine aggregate @ 0.57 cum machine mixed Concrete laid in layers not exceeding 15 cms thick, well Compacted on foundation and plinth, including cost of all materials, labour, tking machinery complete as per specifications. As per permeasurement vide MB No - 2094 vide page no - 209392 to 209393					18.14 m3	90277-
	(5) KSRB S-2.3: Providing and Conveying granite/trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed on Courses not less than 20 cms high, bond stones 2m apart on each course including cost of materials, labour, Curing complete as per Specifications.					Rs 4976.70	Rs 90262=00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Building (entire stone)-	1 ×	9 ×	0.75 ×	0.6	= 4.05 m³	
	Below Ground level for tank XTH	2 ×	1.5 ×	0.45 ×	1.00	= 1.35 m³	
		1 ×	9.9 ×	0.75 ×	0.45	= 3.34 m³	
		1 ×	3.6 ×	0.75 ×	0.45	= 1.22 m³	
				net quantity	=	9.96 m³	
						Rs 4058.74	Rs 4041.00

(6) KSRR 5.3.3: Providing and constructing granite/trap/basalt size stone masonry in basement with cement mortar 1:6, Edges of stone chisel dressed in courses not less than 15 cm thick, bond stones @ 2 m on each course including cost of materials, labour, curing complete as per specifications.

Building centre line -	1 ×	9 ×	0.45 ×	0.45	= 1.82 m³	
Below GL for Tank Platform -	2 ×	1.5 ×	0.45 ×	1.00	= 1.35 m³	

3.17

4.425

erial No. .....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work
1	2

C & F Memo

Assistant Executive E
Vidyaranyapura Sub
BBMP, Bangalore

(7) KSR ... design mix M20 with ... graded granite metal ... 0.45 ... with Superpla ... reaffirmed - 2018, ma ... 15 cm thick vibrated for ...

OOK

Depth 6	Contents 7	Reference to last Measurement 8
× 0.6	= 4.05 m³	
× 1.00	= 1.35 m³	
× 0.45	= 3.34 m³	
× 0.45	= 1.22 m³	
ity =	9.96 m³	4425
	Rs 4040-00	
058.74		
/top) bys all size stone masonry		
e chisel dressed in courses		
ach Course including Cost of		
ent-cations.		
5 × 0.45	= 1.82 m³	
5 × 1.00	= 1.35 m³	

3.17

M. A. R. 57 (Rule 116)
Measurement Book

No. B

209318

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1 ×	9.9 ×	0.45 ×	0.45 =	2.002 m³	
		1 ×	3.6 ×	0.45 ×	0.45 =	0.73 m³	
		Net Quantity				= 5.96 m³	28454
						Rs 28436-00	
(7)	ksf Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97						
	design mix M 20 with OPC cement @ 320 kgs, with command down size						
	graded granite metal, coarse aggregate @ 0.878 cum and fine aggregates						
	0.45 cum with Superplastisizer @ 3 lts confirming to IS 9103-1999						
	Karnataka Ready Mixed Concrete Laid in layers not exceeding						
	1 Sq.m thick vibrated for all works in foundation plinth and sound						

Rs. 4814.52

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Ground level brick roof slabs, staircase, lintels, retaining walls, walls (any shape) including attached plasters, columns, piers, abutments, pillars, posts, steps, buttresses, string & facing, coursing, Parapets, coping, sed, slabs of arches complete as per specifications (plinth) - 1 no	1	9	0.45	0.15	= 0.61 m³	
	lintel - 1 no	1	9	0.20	0.20	= 0.36 m³	
	RCC roof slab) - 1 no	1	2.70	3.15	0.15	= 1.28 m³	
	Concrete for platform) - 1 no	1	1.5	1.5	0.10	= 0.23 m³	
	1 no	1	9.9	0.45	0.10	= 0.45 m³	
	1 no	1	3.6	0.45	0.10	= 0.16 m³	
	1 no	1	3.0	0.2	0.10	= 0.60 m³	
	1 no	1	30.0	0.2	0.10	= 0.60 m³	
	1 no	1	12.5	0.2	0.10	= 0.25 m³	
			Net quantity			= 4.53 m³	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Net quantity
	(8) KSRB 2.3: Filling av foundation upto plinth le each deposited layers by a and lift upto 1.5m, and specifications and measurements and quantity same as that of item no —
	(9) KSRB 5-14: providing

IT BOOK

Dimensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
			retaining walls, walls (any thickness) abutments, Pillars, Posts, Steps, copings, Sed, Blocks of anchor
			0.45 × 0.15 = 0.61 m³
			0.20 × 0.20 = 0.36 m³
			3.15 × 0.15 = 1.28 m³
			1.5 × 0.10 = 0.23 m³
			0.45 × 0.10 = 0.45 m³
			0.45 × 0.10 = 0.16 m³
			0.2 × 0.10 = 0.60 m³
			0.2 × 0.10 = 0.60 m³
			0.2 × 0.10 = 0.25 m³
			Net quantity = 4.53 m³

M. A. R. 57 (Rule 116)
Measurement Book

No. B 209319

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Net quantity				= 4.53 m³		27558 − Rs 27532 = 00
	(8) KSR 32-3: Filling available excavated earth (excluding rock) in sidings & foundation trenches to plinth in layers not exceeding 20 cms, in depth compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications. measurements and quantity as per same as that of item NO — (2)		@ Rs 6083.34		≠	416.25 m³	Rs 52947=00
	(9) KSR 85-14: providing and constructing precast concrete solid blocks		@ Rs 127.20				

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	With Compressive strength not less than 35 kg/m² with cement mortar 1:4, masonry (quoin, jamb, closer b/work) with concrete blocks of size 40×20×20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour, charges on Scaffolding, curing Complete as per specifications						
	Long wall } –	2	2.35	2.10	=	9.87 m²	
	Short wall } –	3	2.35	×2.10	=	14.81 m²	
	Compound wall } –	1	9.90	×1.60	=	15.84 m²	
	For flat form } –	3	3.00	×1.20	=	10.80 m²	
		3	1.5	1.20	=	5.40 m²	
	Rising of Compound wall } –	1	30	2.30	=	69.00 m²	
		1	30	2.10	=	63.00 m²	
						188.72	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	Deduct for openings } –	

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
		m² with cement mortar	
		erete blocks of size	
		in superstructure	
		apoldera, curing complete	
	0 =	9.87 m²	
		14.81 m²	
	2.10 =	15.84 m²	
	60 =	10.80 m²	
	20 =	5.40 m²	
	0 =		
	30 =	69.00 m²	
	10 =	63.00 m²	

188.72

M. A. R. 57 (Rule 116)
Measurement Book

No. B 209320

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1 ×	12.50	× 2.30	=	28.75 m²	
		1 ×	8.4	× 2.30	=	19.32 m²	
		1 ×	16.10	× 2.30	=	37.03 m²	
		1 ×	2.3	× 2.10	=	4.83 m²	
		1 ×	12.3	× 2.30	=	28.29 m²	
		1 ×	4.3	× 2.30	=	9.89 m²	
		1 ×	3.6	× 1.20	=	4.32 m²	
		Net Quantity			=	321.15 m²	
	Deduct for openings :- D-	2 ×	0.70	× 2.10	=	(-) 2.94 m²	
	W-	1 ×	0.65	× 0.45	=	(-) 0.29 m²	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	lintel:-	1	9	0.20		=(-)1.80 m²	
	Net quantity					= 316.11 m²	315977
	@ Rs 999.58						Rs 315980=00
(10)	KSRB 4.9: Straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, Hom & machinery, Complete as per Specifications. As per premeasurment wide of MB No- 20949 Pge No- 209393 to 209394					0.547 Ton	
	@ Rs 58229.25						Rs 31624=00

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore-97

erial No. .....
lame of Work ..... F
lame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
(11)	KSRB 10-3: Providing and treatment including Preparing surfaces, balconies, terraces, @ Applying and grouting a Conforming admixed with specifications.	

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ength 4	Breadth 5	Depth 6	7	8
×	0.20	= (-) 1.80	m²	
et quantity	=	316.11	m²	315977
			Rs	315980=00
@ Rs 999.58				
reinforcement for R.C.C work including bar bending wire and anchoring to am complete as per design (laps, asured and paid cost of materials, per specifications.				
			0.54 Ton	
09394				
@ Rs 58229.25			Rs	31444 31624=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 209321

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	(11) KSRB 10-3: Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment & walls, balconies, terraces, etc., consisting of following application @ Applying and grouting a slurry coat of neat cement using 2.75 kg/m² comprising admixed with proprietary water proofing complete as per specifications.						
		1 ×	2.7 ×	3.15	=	8.51 m²	
		1 ×	6 ×	3.70	=	22.20 m²	
		1 ×	5.3 ×	2.25	=	11.93 m²	
		1 ×	5.45 ×	4.25	=	23.16 m²	
			Net quantity =			65.79 m²	60964
	@ Rs. 926.64					Rs	60966-00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(12) Providing and fixing M.S. Gate as per chief Architect Drawing using 50mm x 50mm 14 gauge M.S. hollow Pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 10mm M.S. flats for vertical alternatively spaced at 4 cms c/c in two layers and 40mm x 6mm M.S. Flates for horizontal member and at the top cast iron spikes are provided at alternate vertical member and at the top cast iron spikes are provided at (Skip Point) Complete as per specifications.						
		1	4.2	1.80	=	7.56 m2	
		1	2.4	2.10	=	5.04 m2	
		1	5.8	1.80	=	10.44 m2	
	Net Quantity				=	23.04 m2	
	(a) Rs 3299.04					Rs 7601.8/-	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Serial No. .....
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	(13) KSRB 15.3.13: Providing cement mortar 1:3, wherever required Smooth including cost of material Hall 3-	2 x
	(14) KSRB 15-3-11: providing cement mortar 1:4, to Stone or Corners wherever required Scaffolding, including cost	

OK

Depth 6	Contents 7	Reference to last Measurement 8
Architect Drawing using		
ne work bent to orientd		
nd 16 to 1 mm square		
n two layers and 40 mm x		
the top cast iron spikes		
the top cast iron spikes		
fications.		
= 7.56 m2		
= 5.04 m2		
= 10.44 m2		
= 23.04 m2		7601B
	Rs 7601B=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

209322

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(13) KSRB 15.3.13: providing 12 mm thick cement Plaster on single coat with cement mortar 1:3, to ceiling including rounding off corners, wherever required Smooth rendering. providing and removing, scaffolding, including cost of materials, labour, curing complete as per specifications.						
	Hall:-	2	x 2.05	x 1.15	= 4.72 m2		
	@ Rs 193.98					Rs 915=00	
	(14) KSRB 15.3.11: providing 20 mm thick cement Plaster in single coat with cement mortar 1:4, to Stone masonry and concrete surface including rounding off corners wherever required Smooth rendering: providing and removing Scaffolding, including cost of materials, labour, curing complete						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
as per	Specifications. Inside wall #all3	~~4~~	2.05	2.10		= 17.22 ~~m²~~	
		~~4~~	1.15	2.10		= 9.66 ~~m²~~	
	Stage3-	~~2~~	3	1.20		= 7.20 m²	
		~~2~~	1.5	1.20		= 3.60 m²	
		~~2~~	1.5	1.20		= (-) 5.04 m²	
	Deductions3- For Doors	~~1~~	2.4	2.10		= (-) 2.16 m²	
	windows3-	~~2~~	0.9	1.20		= (-) 2.16/2	
	Net quantity = 37.68 - (5.04/2) - 2.16/2						
	Total Net quantity =					34.08 m²	
	@ Rs 235.32					Rs 8020=00	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date 1	Full description, etc, of work 2
(15)	KSRB 15.7: prov including cost of mat measurements and qua as that of item NO -
(16)	KSRB 15.3.9: prov mortar 1:6, to dra required smooth & Cost of materials,

BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
2.10		= 17.22 m²	
2.10		= 9.66 m²	
1.20		= 7.20 m²	
1.20		= 3.60 m²	
2.10		= (-) 5.04 m²	
1.20		= (-) 2.16 m²	
37.68 - (5.04/2) - 2.16/2			
ity =		34.08 m²	
Rs 235.32		Rs 8020=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

209323

erial No. ..... From..... To.....
ame of Work .....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
	2	3	4	5	6	7	8
(15)	KSRB 15.7: providing time rendering for plastering to wall and ceiling, including cost of materials, labour, curing, complete as per specifications. measurements and quantity are same as that of item NO - (12+13)					38.80 m² @ Rs. 25.44 Rs 987=00.	
(16)	KSRB 15.3.9: providing 18mm thick Cement Plaster in single coat with cement mortar 1:6, to brick masonry including rounding of corners wherever required smooth rendering, providing and removing scaffolding, including Cost of materials, labour, curing complete as per specifications.	(2 ×	2.35 ×	2.10	=	9.87 m²	

C&F.C
31/05

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	R.R. stone compound wall } -	2 no	2.75 no	2.10	=	11.55 m²	
		2 no	30 no	2.50	=	150 m²	
		2 no	30 no	2.50	=	150 m²	
		2 no	12.5 no	2.50	=	62.50 m²	
		2 no	8.4 no	2.50	=	42.00 m²	
		8 no	8.4 no	2.50	=	80.50 m²	
		2 no	16.1 no	2.50	=	11.50 m²	
		2 no	2.30 no	2.50	=	61.50 m²	
		2 no	12.3 no	2.50	=	21.50 m²	
		2 no	4.3 no	2.50	=	35.64 m²	
		2 no	9.9 no	1.80	=	636.56 m²	
	C&FC. 31/05						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	
1	2	
	Deductions } - D	
	W	
	To	
	C&FC	
	Assistant Executive Engin	
	Vidyaranyapura Sub Divi	
	BBMP, Bangalore - 97	
(17)		
	using mortar 1:6, 25mm thic	
	line and level and joints	

BOOK

ns		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
2.10 =		11.55 m2	
.50 =		150m2	
50 =		150m2	
50 =		62.50m2	
50 =		42.00m2	
50 =		80.50m2	
50 =		11.50m2	
50 =		61.50m2	
50 =		21.50m2	
50 =		35.64m2	
80 =			
		636.56 m2	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 209324

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
	2	3	4	5	6	7	8
	Deductions - D	1 ×	2.40 ×	2.10	= (-)5.04 m2		
	W	2 ×	0.9 ×	1.20	= (-)2.16 m2		
	TO				(-)7.20 / 2 =	-3.60m2	
	Total Net Quantity =				636.56 - 3.60		
	=				632.96 m2		
					@ Rs 199.28	Rs 126136=00	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

(17) Providing with 25mm to 40mm thick polished shahabad slabs over 1:6, 25mm thick cover (cement concrete bed @ top of roof laid to slope and level and jointed with cement slurry mixed with pigment to match

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	the shade of the slab, including Hall }-	Cost of materials complete as per Specifications					
		1 no	8.65	5.65		= 48.87 m2	
		2 no	8.65	0.10		= 1.73 m2	
		2 no	5.65	0.10		= 1.13 m2	
			Net Quantity			= 51.73 m2	
			@ Rs 12	16.80		Rs 62952=00	62949
	(18) KSRB 4-6-7 : providing and removing centering, shuttering, striking, propping etc., and removal of formwork for flat surface such as suspended floors, roofs, landings, balconies and like thickness upto 200mm including cost of all materials, labour complete as per Specifications	2 no	1.05	1.15		= 4.72 m2	
			@ Rs 323.30			Rs 1526	1524

erial No. .....
lame of Work .....
lame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work
1	2
(19)	KSRB 4-6-7 : Providing and removal of formwork for girders, bressumers and lintels, materials, labour comple Tie Beams- Lintel sides- Plinth - Front sides-

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
materials complete as per Specifications				
65 × 5.65	=		48.87 m²	
65 × 0.10	=		1.73 m²	
65 × 0.10	=		1.13 m²	
Net Quantity	=		51.73 m²	62949
			Rs 62952=00	
Rs 12 16.80				
s, shuttering, propping etc.,				
uch as Suspended floors, RCC, landings,				
cluding cost of all materials labour				
05 × 1.15	=		4.72 m²	1526
Rs 323.30			Rs	1524=00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 209325

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
19	KSRB 4-6-7: providing and removing centring, shuttering, propping etc., and removal of formwork for sides and soffits of beams, girders, bressumers and lintels, not exceeding 1m depth including cost of all materials, labour complete as per specifications.						Beam Landings, cantilever
	Tie Beams-	2 ×	9 ×	0.45	=	8.10 m²	
	Lintel sides-	2 ×	9 ×	0.45	=	8.10 m²	
	Plinth-	2 ×	9 ×	0.20	=	3.60 m²	
	Footing sides-	2 ×	2.35 ×	0.15	=	0.71 m²	
		2 ×	2.75 ×	0.15	=	0.83 m²	
			Net quantity		=	21.33 m²	
			@ Rs. 265.00			Rs 5652=00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(20)	KSR&B 4-6-6: providing and removing centering, Shuttering, struting, propping etc. and removal of formwork for columns, pillars, piers, post and struts, circular (or) curved on plan including cost of all materials, labour, complete as per specification.						
	Columns } -	4	1.30	4.95	= 25.74 m2		
	@ Rs 896.76					Rs 23083=00	
(21)	Supply and fixing pressed steel door frame size 125x65 mm manufactured from 1.25 mm thick Carbon steel @ 900 gsm for door openings and shutters made out of imported steel strips with mitered joints & 30 mm thick with lock rail of 160 mm, width top and side rail of 100 mm, width and bottom rail of 250 mm width and panel filling with 12 mm thick particle board of SI tonne grade bonded with phenol formaldehide resin and shutter shall be rot proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for period of 3 years, this shall as be approved drawings, specifications and directions. Complete as per results catalogue.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	
1	2	
	MD – C&E.	
(22)	Supplying and fixing pre... from 1.25 mm thick Carbon ... fillets at 90 degree for ... drill as per design and ... to centre horizontally on ... at 100 mm centre to centre ... 40 mm size at 150 mm apa... M.S. Plate with 16 mm di...	

ENT BOOK

Dimensions			Contents	Reference to last Measurement
h	Breadth 5	Depth 6	7	8
...ns, Shuttering, Struts, prop'g ... Piers, Post and Struts, Colour ... all, Labour, complete as per Specifn.				
0 × 4.95			= 25.74 m2	
896.76				Rs 23083=00
e size 125×65mm manufactured ... steel stays with metered joints ... of seasoned hoop pine wood, stylen ... top and side rails & 100mm width ... ling with 12mm thick particle ... ternal dilute resin and shutter ... nt guaranteed against shrinkage, ... ears, this shall also be approved, ... as per specifications.				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 209326

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
		2	3	4	5	6	7	8
	MD – C&E.C.	1 ×	2.40	× 2.10	= 5.04m2		
		31/05	@Rs3710.00				Rs 18698=00
	(22) Supplying and fixing pressed steel window frame of size 100×50mm manufactured from 1.25mm thick Carbon Steel galvanised steel strips with neat metered fillets at 90 degree for window openings and shall be suitable to fix in M.S. grills as per design and drawings with 12mm dia rods at 200mm Centre to Centre horizontally and two members of M.S. Flats of 6mm × 40mm size at 150mm apart, welded into a frame of 6mm × 40mm size at 100mm Centre to centre horizontally and 2 members of M.S. Flats of 6mm × 40mm size at 150mm apart, welded into a frame of 6mm × 40mm size M.S. Flats with 16mm size lugs, and grout of 100mm size higher grades						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4 butt hinges and tower bolts and Shutters half panelled and half glazed with Shutters made out of seasoned Honne wood, Styles of 30mm thick and 100mm width and using 4mm thick Plain Moulded glass panelled frame with 12mm thick particle board of Exterior grade bonded with heat resistant guaranteed against the Shutter shall be Rot proof Vermin proof for a period of 3 years, this shall be as per approved shrinkage, warpage and such other defects specifications.						
	Windows :-	3 × 1.2 × 1.50				= 5.40 Sqm	
	@ Rs 4028.00						Rs 2175/-
	(23) KSBR SC. 14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on well surface including priming coat with distemper primer after thoroughly blooming the surface to remove moss, dirt drops and other foreign matter including preparing the surface even and sand paper smooth, Cost of materials, Labour, Complete as per specifications.						

Measurment and Quantity are same as that of Item No (14)

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

ENT BOOK

Dimensions			Contents	Reference to last Measuremen
th	Breadth 5	Depth 6	7	8
ts and Shutters Half panelled easoned Honne wood, Styles & pm thick pin headed glass rd & Exterior Grade bonded with should be Rot proof Vermin proof e, warpage and such other defects ved Drawin 1:4 Cement Plaster as per				
× 1.50 = 5.40 m²				
Rs 2175/= on				
4028.00				
ats with oil bound washable wall surface including priming rooming the surface to receive ding preparing the surface even , labour, Complete as per specifications				

M. A. R. 57 (Rule 116)
Measurement Book

No. B 209327

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Measurment and quantity are same as that of Item NO (14)					38.80 m²	
		2 ×	9.15	× 3.20	=	58.56 m²	
		2 ×	6.15	× 3.20	=	39.36 m²	
				Net quantity	=	136.72 m²	
						-5.04 m²	
		2.4 ×		2.10	=	(-)5.40 m²	
		1.5 ×		1.20		10.44 m²	
						= (-)5.22 m²	
						2	
	Net quantity	= 136.72 - 5.22 =				131.50 m²	

C & F
Measured

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore - 97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Total - Net Quantity =			131.50 m²			
	@ Rs 69.96					Rs 9200 9199=00	
	(24) KSR 15-16.2: providing and finishing external walls in two coats with water proof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dust & loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.						
	Measurement & quantity are same as that of item NO - (15)					632.96 m²	
		2	9.15	3.20	=	58.56 m²	
		2	6.15	3.20	=	39.36 m²	
						730.88 m²	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	(25) KSR 15-5. Provi... window water pipes ... with necessary special ...

Assistant Executive Engine...
Vidyaranyapura Sub Divi...
BBMP, Bangalore - 97

ENT BOOK

Dimensions			Contents	Reference to last Measurement
th	Breadth 5	Depth 6	7	8
			Rs 9200 / 9199=00	
			external walls in two coats brand and shade to shear ntake to remove all dust & ter drops and other foreign matter r specific actions.	
			632.96 m²	
15×	3.20 =		58.56 m²	
15×	3.20 =		39.36 m²	
			730.88 m²	

M. A. R. 57 (Rule 116)
Measurement Book

No. B
209328

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1×	2.4×	2.10	=	5.04m²	
		3×	1.5×	1.20	=	5.40m²	
						10.44 = 75.22m²	
						2	
						Net quantity = 730.88 − 5.22 = 725.66m²	
						Rs 60767=00	

Assistant Executive Engineer
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BBMP, Bangalore-97

(2) Rs 83.74

2. 1-5. providing and fixing on wall surface 2.5 kg/cm² H.D.P.E rain down water pipes 90mm outside approved make and brand Raldle with necessary special like shoe bends and offsets fixed with iron clamp

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Wall plugs, screws, including cost materials, labour, Hoisting machinery complete as per specifications.		2 × 3.00 = 6.00 Mtr			Rs 2709=00	
			@ Rs 451.56				
	(26) KSRB M3.1: laying reinforced cement concrete pipe NP4/Pressed concrete pipe for culverts on first class bedding of granular material in double row including fixing collar with cement mortar 1:2 But excluding excavation, protection works on Lead walls and Parapets complete as per specifications.		3 × 3.00 = 9.00M			Rs 21275=00	
			@ Rs 2358.06				
	(27) KSRB 13-1.6: providing and fixing to wall, ceiling and floor galvanized						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
	mild steel tube 50mm dia weight 5.24 kg/mtr) B Cla charges Hon of equipme	
	(28) KSRB 13-1.4: providing mild steel tube 32mm dia weight 3.023 kg/mtrs)	

UREMENT BOOK

Dimensions				Contents	Reference to last Measurement
nber 3	Length 4	Breadth 5	Depth 6	7	8
				+ q materials, labour, Hamali making	
	x 9.00			= 6.00 m Bar	Rs 2709=00
	@ Rs 451.56				
	ment concrete pipe NP4 for stressed				
	ss bending of granular material				
	ollar with cement mortar 1:2 But				
	s on Lead walls and Parapets				
	x 3.00			= 9.00 m Bar	
	@ Rs 23586.06				Rs 2122 75=00
	ng to wall, ceiling and floor galvanized				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

209329

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	mild steel tube 50mm dia nominal bore (weight 5.24 kg/mtr) B class including cost of materials, labour charges for use of equipments and testing complete as per specifications.				with fitting (medium grade		
			3 x 5		= 15.00 m		
			@ Rs. 534.24			Rs 8014=00	
	(2) KSRB13-1.4: providing and fixing to wall, ceiling and floor galvanized mild steel tube 32 mm dia nominal bore with fittings (medium grade (weight 3.023 kg/mtrs)		1 x 6		= 6 mtrs		
					@ Rs. 366.76	Rs 2201=00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(29) KSMB 13-6.2.1: Providing and fixing on position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and tools & plants etc with all leads complete as per specification.						
		3	x 4			= 12.00 Nos	
		@ Rs. 167.48				Rs 2010=00	
							13.75449
		Sub total —				Rs ~~1375570~~	
							1100.36
		KRIDL Charges @ 8%				Rs ~~110044=00~~ 1375.4	
		QC Charges @ 1%				Rs ~~13756=00~~	
		Total				Rs ~~1499372=~~ 14-99-239-	

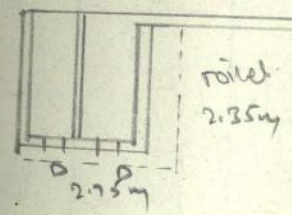
Total Rs: 14.99.239-00

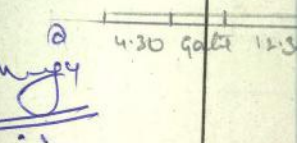
15/05/2017

Assistant Executive E
Vidyaranyapura Sub

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3





BOOK

s		Contents	Reference to last Measuremen
adth 5	Depth 6	7	8
		ition brantstep CUM of g cost of all materials, mplete as per specifications. = 12.00 Each	
7.48			Rs 2010=00
			13.75449
otal —			Rs ~~1375570~~ 110036
			Rs ~~1100446=00~~ 13754
			Rs ~~13756=00~~
Total			Rs ~~1499372=~~ 14-99-239-

05/2017

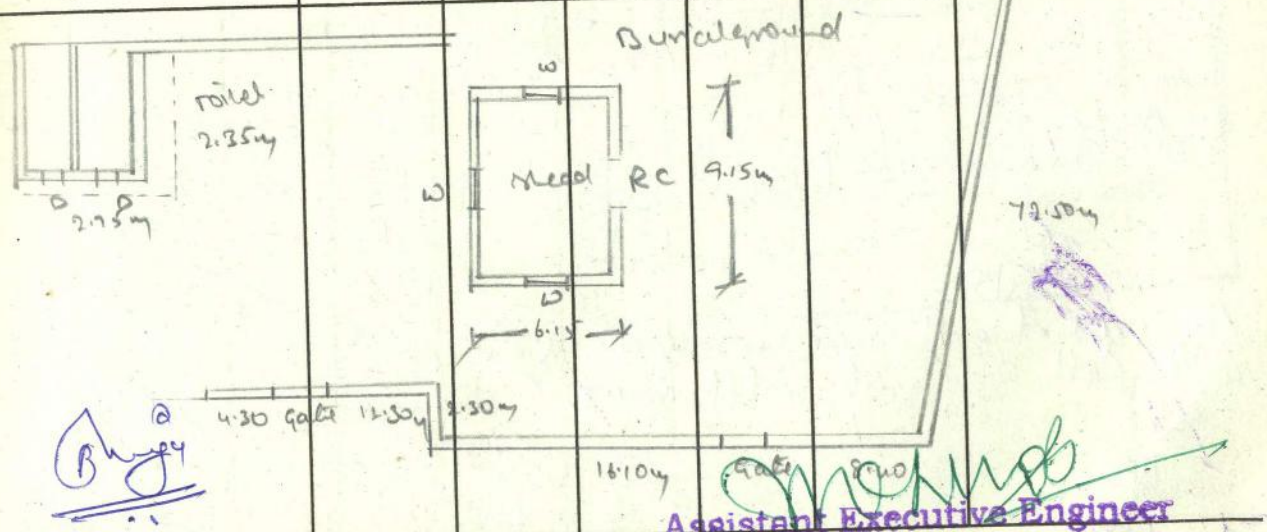
Assistant Executive E
Vidyaranyapura Sub

M. A. R. 57 (Rule 116)
Measurement Book

No. B
209330

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8



Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

BR|99|31.5.17

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	14.99.239-00 205699-00 1293540-00 Twelelakh ninety three thousand five hundred forty only. Assistant Executive Engineer 31/05 31/5 Accepted all measurements with full & final Settlement.					Total Rs: 14,99,239-00 IT - 29985-00 VAT - 59970-00 Cess - 14992-00 CBF - 1499-00 LR 17991-00 FSD 74962-00 Fine: 6300-00 Rs. 205699-- Cheque. 1293540--	

BR|97|31-5-2017.

Name of the work & Estimate for
Serial No. ... Vandayarpanayal, Kanaya
Name of Work Const. of Splaya, Ext. wa
Name of Contractor of nature of Agency ...
Date of commencement of work ...

Date	Full description, etc, of work
1	2
	Work order No:- BB/M Work code:- 011-16- (1) KSRB 15.3.13: providing mortar 1:3, to ceiling & c smooth rendering: provi materials, labour, curing Anganvadi Building Toilet Sirsapura-